west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

September 18, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9900895, issued to CABOT OIL & GAS CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: (2-S-894) ARMILDA GILKERSON
Farm Name: UHL, DENNIS ,. ET AL
API Well Number: 47-9900895
Permit Type: Plugging
Date Issued: 09/18/2013

Promoting a healthy environment.

9400895P

WW-4B
Rev. 2/01

1) Date August 14, 2013
2) Operator's
Well No. Armilda Gilkerson #2
3) API Well No. 47-099-00895

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 674.19' Watershed Left Fork of Millers Fork
District Union County Wayne Quadrangle Nestlow

6) Well Operator Cabot Oil & Gas Corporation
Address Five Penn Center West, Ste. 401
Pittsburgh, PA 15276

7) Designated Agent Brian Hall
Address 6804 Lick Creek Rd.
Danville, WV 25053

8) Oil and Gas Inspector to be notified
Name Jeremy James
Address P.O. Box 147
Ona, WV 25545

9) Plugging Contractor
Name Viking Well Services
Address 8113 Sissonville Drive
Sissonville, WV 25320

10) Work Order: The work order for the manner of plugging this well is as follows:

See Attached Sheet

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AUG 28 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector _____ Date 8-21-13

9900895P

A. Gilkerson #2
API # 47 – 099 - 00895
PLUGGING PROCEDURE

ELEV. 674'

Current Configuration
TD @ 3201'
10-3/4" – drive pipe @ 27'
8-5/8" – 24# casing @ 298' on shoe
7" – 20# casing @ 1148' on shoe
5-1/2" – 14# casing @ 1254' on Hookwall packer
3-1/2" – 9.2# tubing @ 1425' on Hookwall packer
Fresh water @ 27' & 40'
Coal @ 265' – 270'
Salt water @ 1090'
Brown Shale shot @ 2000' – 3201'
Berea @ 1897' – 1909'
Injun with gas show @ 1293' -1317'
Big Lime with gas show @ 1108' – 1265'
Gas show @ 705'

PROCEDURE

1. Contact Danville Office a minimum of 48 hours prior to starting work.
2. Contact State Inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely.
5. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
6. Unpack wellhead.
7. Pull 3-1/2" tubing. **If unable to pull, go to step 15.**
8. TIH with 2 $^{3}/_{8}$" work string to TD. ≈ 2000' TO SHOT.
9. MIRU Cement Company and pump 80 bbls 6% Gel.
10. Pull work string up to 1980' and pump 20 sks of Class A cement for plug 1 from 1980' to 1780'.
11. Displace w/ 7 bbls of 6% Gel.
12. TOOH with work string. Let cement plug set for a minimum of eight hours.
13. **Go to step 22.**
14. **If 3-1/2" tubing could not be pulled** run freepoint on tubing.
15. TIH with 1-1/2" work string to TD.
16. Pump 80 bbls 6% Gel.
17. Pull work string up to 1980' and pump 20 sks of Class A cement for plug 1 from 1980' to 1780'.
18. Displace with 4 bbls 6% Gel.
19. TOOH with work string. Let cement plug set for a minimum of eight hours.
20. Cut 3-1/2" tubing where free and POOH.
21. Attempt to pull 5-1/2" casing.
22. If unable to pull 5-1/2", run freepoint, cut above freepoint, and POOH.
23. Pull 7" casing.
24. TIH with work string to 1450'.
25. Pump 95 sks of Class A cement for plug 2 from 1450' to 1000'.
26. Displace with 4 bbls 6% Gel if using 2-3/8" work string, or 2 ½ bbls 6% Gel if using 1-1/2" work string.
27. TOOH with work string.
28. Pull 8-5/8" casing and 10-3/4" drive pipe.

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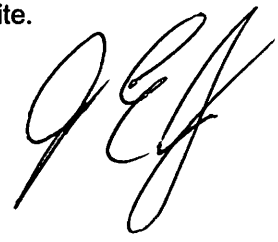
9900895P

29. TIH with work string to 700' and pump 35 sks of Class A cement for plug 3 from 700' to 600'.
30. Displace w/ 2 bbls of 6% Gel.
31. Pull work string up to 300' and pump 145 sks of Class A cement for plug 4 to surface.
32. TOOH with work string and lay down.
33. RDMO Cementing Company.
34. Place monument as required by law on top of well bore.
35. Reclaim well site.



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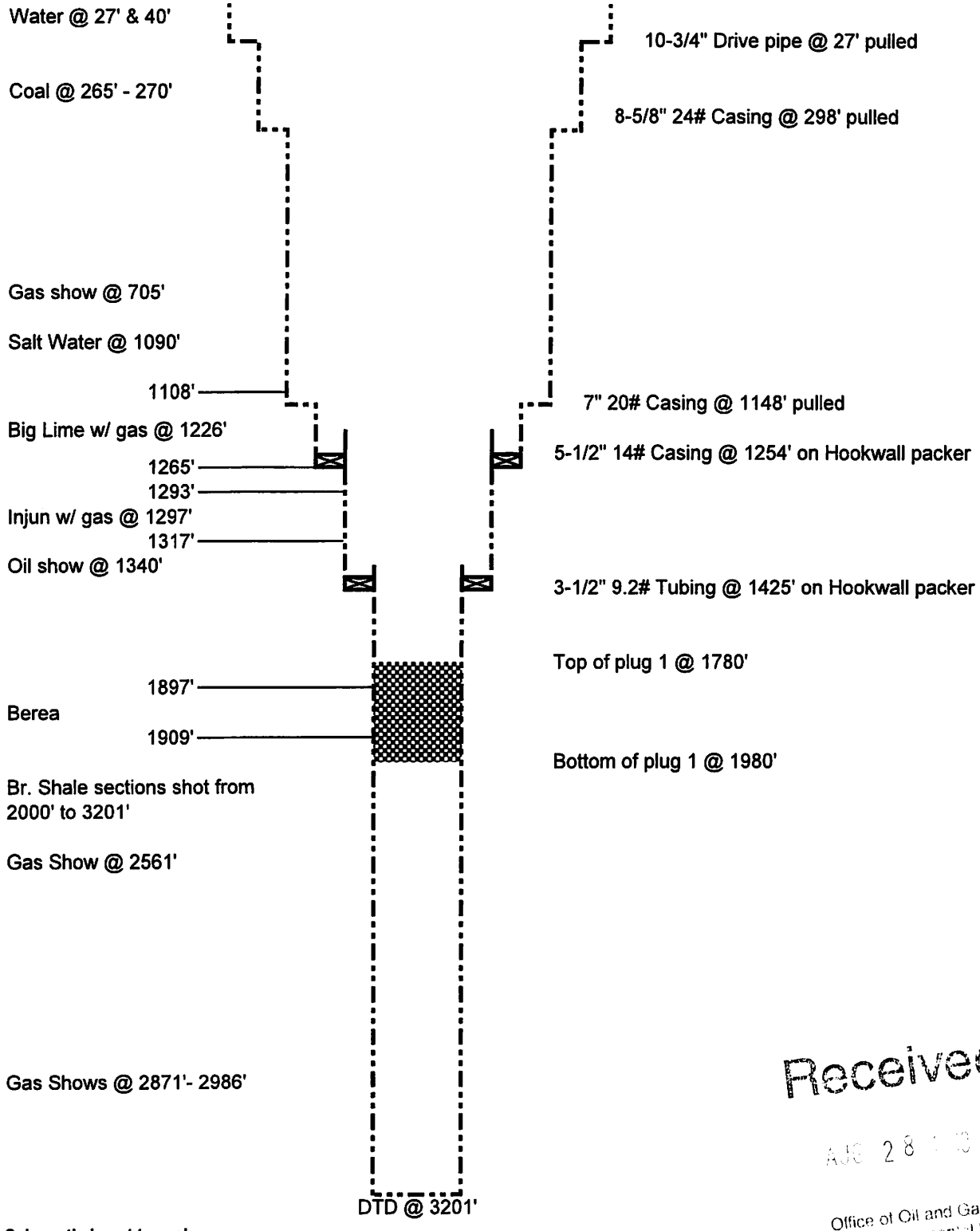
9900895P

A. Gilkerson #2

API 47-099-00895

PROPOSED CONFIGURATION



Schematic is not to scale

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T. Ott 03/07/13

9900895P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 8

WELL RECORD

Quadrangle Wayne

Permit No. WAY- 895

Oil or Gas Well Gas (KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4158, Charleston 4, W. Va.
Farm Armilda Gilkerson Acres 154
Location (waters)
Well No. 2 (Serial #894) Elev. 672.87
District Union County Wayne
The surface of tract is owned in fee by
Address
Mineral rights are owned by Armilda Gilkerson
Address Wayne, W. Va.
Drilling commenced 10-22-53
Drilling completed 1-18-54
Date Shot 1-19-54 From 2000. To 3201
With 7,300 lbs. of Detonite
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Big Lime, 147 M; Br. Shale 50M -197M Cu. Ft.
Rock Pressure 295 lbs. 111 hrs.
Oil bbls., 1st 24 hrs.
Fresh water 27', 40', 92 feet 700 feet
Salt water 714 feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer "Oilwe Hookwall
13			
10			Size of 5⅛ x 6-5/8"
8-5/8"	298'6"	298'6"	
7"	1148'6"	1148'6"	Depth set 1251-1255
5½"	1409'8"	Pulled	"Spang" H.W. 3½x
3-1/2"	1270'7"	Pulled	Set @ 1421
5½"	-----	1254'11"	1425
3½"	-------	1425'5"	Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 265 FEET 60 INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	Yellow	Soft	0	15			
Sand	Yellow	Soft	15	20			
Sand	Black	Soft	20	25			
Sand	Grey	Hard	25	40	Water at 27', 1 BPH		
Slate	Black	Soft	40	42	Water at 40' 6 BPH		
Sand	Grey	Hard	42	46			
Slate	White	Soft	46	71			
Sand	Grey	Hard	71	77			
Sand	White	Soft	77	92			
Slate	White	Soft	92	98			
Sand	White	Med.	98	114			
Sand	White	Hard	114	126			
Sand	White	Med.	126	147			
Broken S.	Grey	Soft	147	190			
Sand	White	Soft	190	223			
Slate	White	Soft	223	238			
Broken S.	Grey	Soft	238	265			
Coal	Black	Soft	265	270			
Slate	Dark	Soft	270	318			
Sand	White	Soft	318	348			
Slate	Dark	Soft	348	379			
Sand	White	Soft	379	390			
Slate	White	Soft	390	431			
Broken S.	Dark	Soft	431	475			
Sand	White	Soft	475	583			
					Ran 8-5/8" csg. on shoe at 298'.		
Slate	Grey	Soft	583	642			
Gas Sand	White	Soft	642	707			
Salt Sand	White	Hard	707	800	Show of gas 705		
Slate			800	805	Water 714', hole filling up.		
Lime Shells	Grey	Hard	805	834			
Salt Sand	White	Hard	834	1020			
Slate	Light	Soft	1020	1027			
Red Rock	Red	Soft	1027	1030			
Slate	Light	Soft	1030	1080			
Little Lime	Grey	Hard	1080	1103			
Pencil Cave	Light	Soft	1103	1108			
Big Lime	White	Hard	1108	1126	Water level at 1033' - 120'		

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(Over)

(OVER)

9900895F

Formation	Color	Hard or Soft 8	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Break	White	Soft	1126	1129			
Big Lime	White	Hard	1129	1265	Ran 7" csg. on shoe at 1149'		
"Keener" S.	Grey	Hard	1265	1269			
					Gas 1226'	22/10 W-2"	147 M
					Test 1237'	16/10 W-2"	125 M
					Test 1266'	12/10 W-2"	109 M
					Ran 3½" tubing to 1269 on Combination Packer set at 1175'-1181 in order to acidize well.		
					Test before tubing		104 M
					Test after tubing		112 M
					Pressure in 64 hours		377 lbs.
					Acidized Big Lime with 1000 gal. on 11/30/53		
					Lime would not take acid		
					Pulled tubing and bailed.		
					Test after bailing	41/10 W-1½"	113 M
					Resumed drilling 12/3/53		
"Keener" Sand	Dark	Hard	1269	1293			
Big Injun	Grey	Hard	1293	1317	Test 1291	52/10 W-1½"	127 M
Slate	Dark	Soft	1317	1320	Gas 1297 to 1300	62/10 W-1½"	139 M
Lime Shell	Dark	Hard	1320	1335			
Limey Sand	White	Hard	1335	1340	Oil show on tools 1340-1349		
Gritty Shell	Dark	Hard	1340	1350			
Sand	White	Med.	1350	1375			
Shell	Black	Med.	1375	1380			
Shell	Grey	Hard	1380	1403	Test 1403	same	139 M
					Test at 1409	61/10 W-1½"	138 M
Lime Shell	Grey	Hard	1403	1430	Ran 5½" casing on shoe at 1409'		
Sl. & Shells	Light	Med.	1430	1488			
Sl. & Shells	White	Soft	1488	1540			
Slate	White	Soft	1540	1584			
Slate	White	Med.	1584	1617			
Slate	White	Soft	1617	1627			
Sl. & Shells	White	Med.	1627	1686			
Sl. & Shells	White	Hard	1686	1706			
Shells	---	Hard	1706	1732			
Sl. & Shells	White	Med.	1732	1766			
Shell	Grey	Hard	1766	1841			
Slate	White	Soft	1841	1852			
Slate	Brown	Soft	1852	1880			
Slate	Grey	Soft	1880	1887			
Br. Shale	Brown	Soft	1887	1897			
Berea Sand	Grey	Hard	1897	1909			
Shell	Dark	Hard	1909	1918			
Lime Shell	Grey	Hard	1918	1928			
Shell	Dark	Hard	1928	1938			
Sl. & Shells	White	Med.	1938	1953			
Slate	White	Soft	1953	1960			
Lime Shells	White	Hard	1960	1964			
Sl. & Shells	Dark	Med.	1964	2012			
Shells	Dark	Hard	2012	2032			
Slate	White	Soft	2032	2063			
Slate	Dark	Soft	2063	2089			
Slate	White	Soft	2089	2417			
Br. Shale	Brown	Soft	2417	2442			
Shale	Grey	Soft	2442	2464			
Slate	White	Soft	2464	2494			
Shale	Grey	Soft	2494	2535			
Slate	White	Soft	2535	2555	Gas 2561	18/10 W-1/8"	.5 M
Br. Shale	Brown	Soft	2555	2889			
					Test 2740	18/10 W-1/8"	.5 M
					Tests 2771 to 2861 =		"0"
White Shale	White	Soft	2889	2896	Gas 2871	8/10 W-1/8"	.3 M
Grey Shale	Grey	Soft	2896	2975	Gas 2889	11/10 W-1/8"	.4 M
Slate	White	Soft	2975	3056	Gas 2907	29/10 W-1/4"	2.1 M
Shale	Grey	Soft	3056	3109	Gas 2940	13/10 W-3/8"	3.9 M
Br. Shale	Brown	Soft	3109	3199	Gas 2946	19/10 W-3/8"	4.8 M
Corniferous	Dark	Hard	3199	3201	Gas 2986	20/10 W-3/8"	4.9 M

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WV Dept. of Environmental Protection

099-895

Date _____, 19____

APPROVED _____, Owner

By C K Smith
(Title)

9900895P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 8A

(Cont.)

WELL RECORD

Quadrangle Wayne

Permit No. Way- 895

Oil or Gas Well Gas (KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4158, Charleston 4, W. Va.
Farm Armilda Gilkerson Acres 154
Location (waters)
Well No. 2 (Serial #2) Elev. 672.87
District Union County Wayne
The surface of tract is owned in fee by
Address
Mineral rights are owned by Armilda Gilkerson
Address Wayne, W. Va.
Drilling commenced 10-22-53
Drilling completed 1-18-54
Date Shot 1-19-54 From 2000 To 3201
With 7,300 lbs. of Detonite
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Big Lime, 147 M; Br. Shale 50M-197M Cu. Ft.
Rock Pressure 295 lbs. 111 hrs.
Oil bbls., 1st 24 hrs.
Fresh water 27, 40, 92 feet feet
Salt water 714 feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
					Test 3109	19/10 W-3/8"	4.8 M
		Total Depth		3201			

Shot 1-19-54 with 7,300 lbs. of Detonite from 2000 to 3201.

Before shot: 4.9 M
15 min. A. S. 623 M
1 hour A. S. 198 M
2 hours " " 109 M
12 hours 51 M
22 hours " " 51 M (Same)

While blowing off casinghead, expelled about 2 barrels of water. Water source is Big Injun Sand. Pulled 5½" csg. and reran at 1255 feet to protect Big Lime gas. Ran 3½" tubing on hookwall packer set at 1425 feet.

Final Open Flow:

Big Lime (5½x7) 147 MCF
Br. Shale (3½) 50 MCF

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(Over)

99 00895 P

WW-4A
Revised 6-07

1) Date: August 14, 2013
2) Operator's Well Number
Armilda Gilkerson #2

3) API Well No.: 47 - 099 - 00895

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Dennis M. Uhl ✓
Address: RR 2, Box 2337
Wayne, WV 25570 ✓
(b) Name: Kathleen Longwith ✓
Address: 11 Sturbridge Drive
Sicklerville, NJ 08081
(c) Name: Alexis Renee Uhl ✓
Address: RR 2, Box 2337
Wayne, WV 25570

6) Inspector: Jeremy James
Address: P.O. Box 147
Ona, WV 25545
Telephone: (304) 951-2596

5) (a) Coal Operator
Name: N/A
Address:

(b) Coal Owner(s) with Declaration
Name: See Attached Sheet ✓
Address:

Name:
Address:

(c) Coal Lessee with Declaration
Name: N/A
Address:

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: Cabot Oil & Gas Corporation
By: Kenneth L. Marcum
Its: Regulatory Supervisor
Address: Five Penn Center West, Suite 401
Pittsburgh, PA 15276
Telephone: (412) 249-3850

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2013
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 14th day of August, 2013
Constance C. Carden Notary Public
My Commission Expires November 16, 2013

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AUG 16 2013
Office of Oil and Gas
WV Department of Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

9901872P

WW-9
(5/13)

Page _____ of _____

API Number 47 - 099 - 01872

Operator's Well No. Armilda Gilkerson #2

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cabot Oil & Gas Corporation OP Code _____

Watershed (HUC 10) Leeft Fork of Millers Fork Quadrangle Nestlow

Elevation 674.19' County Wayne District Union

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes _____ No X

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes _____ No X If so, what ml.?_____

Proposed Disposal Method For Treated Pit Wastes: EFFLUENT MUST BE CONTAINED IN TANKS.

_____ Land Application
_____ Underground Injection (UIC Permit Number_____)
_____ Reuse (at API Number_____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
■ Other (Explain No treated pit wastes will be produced

Will closed loop system be used? N/A

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. no drilling proposed

-If oil based, what type? Synthetic, petroleum, etc._____

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings produced during plugging operation

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_____

-Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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WV Dept. of Environmental Protection

Company Official Signature Kenneth L. Marcum

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 14th day of August, 2013

Constance C. Carden Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2013
Member, Pennsylvania Association of Notaries

My commission expires 11/16/2013

9901872P

Form WW-9

Operator's Well No. **Armilda Gilkerson #2**

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Pulp Fiber at 1000 to 1500 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Grain Rye - 100 Red Clover - 5 Fescue - 40		Grain Rye - 100 Red Clover - 5 Fescue - 40	
Annual Rye - 20 White Clover - 5		Annual Rye - 20 White Clover - 5	
Perennial Rye - 10 Alta Sweet Clover - 5		Perennial Rye - 1 Alta Sweet Clover - 5	
Yellow Clover - 5 Birdsfoot Trefoil -10		Yellow Clover - 5 Birdsfool Trefoo	

Attach:
Drawing(s) of road, location,pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: Must Notify resident of nearby home 48hr before Moving in.

Title: inspector 006 Date: 8-21-13

Field Reviewed? (V) Yes ( ) No

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WV Dept. of Environmental Protection

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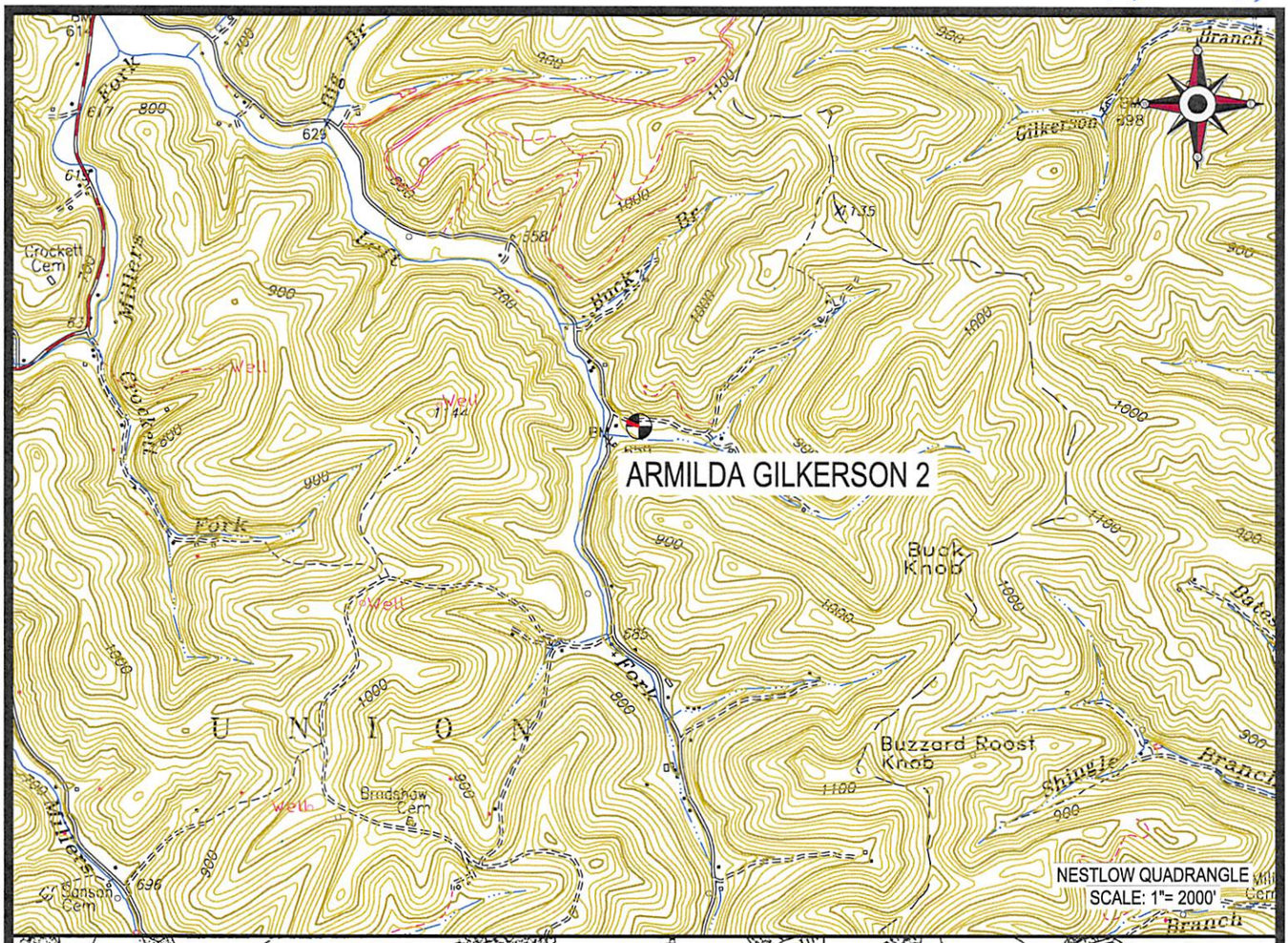

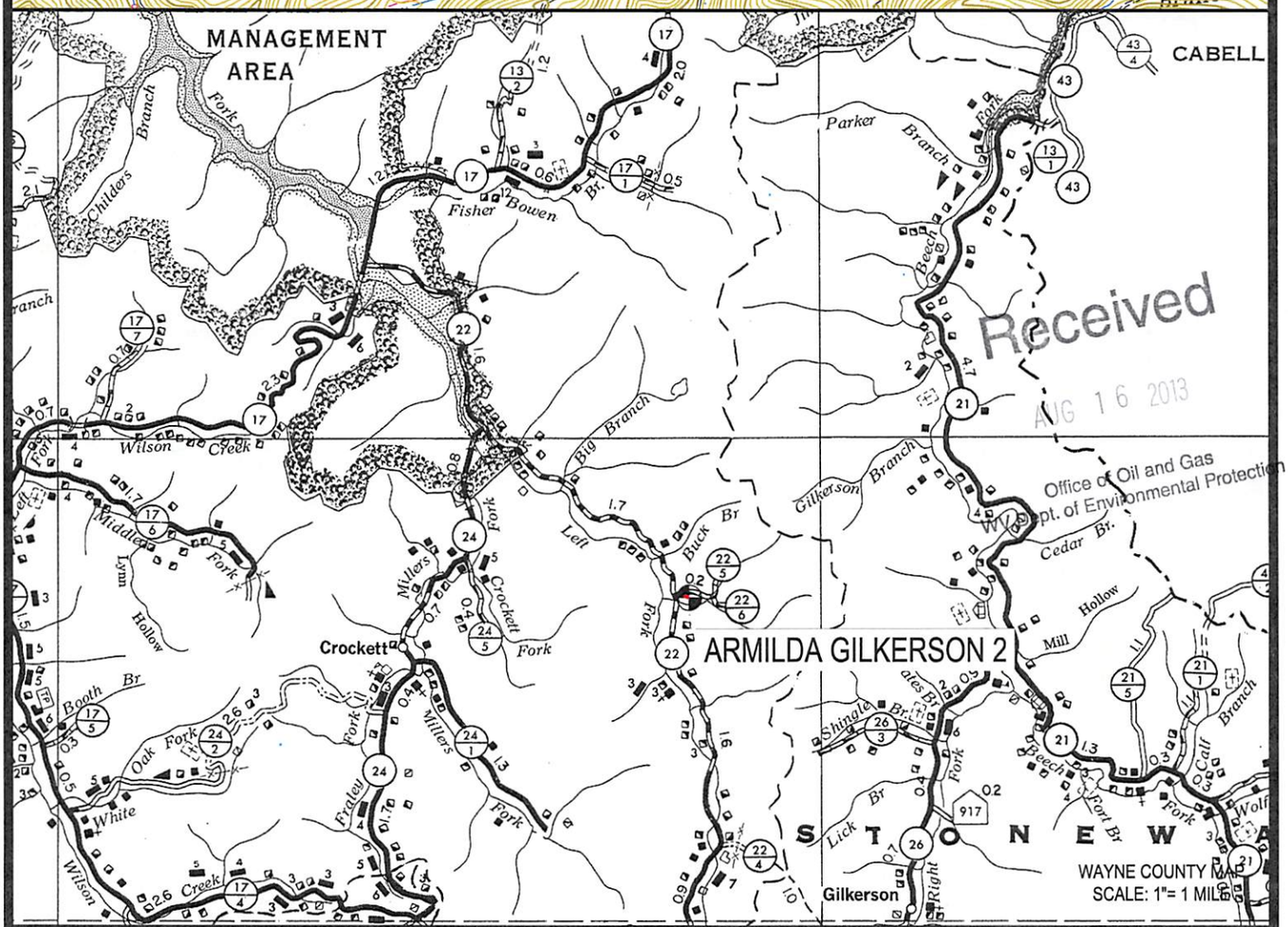

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Office of Oil and Gas
WV Dept. of Environmental Protection

Cabot Oil & Gas Corporation

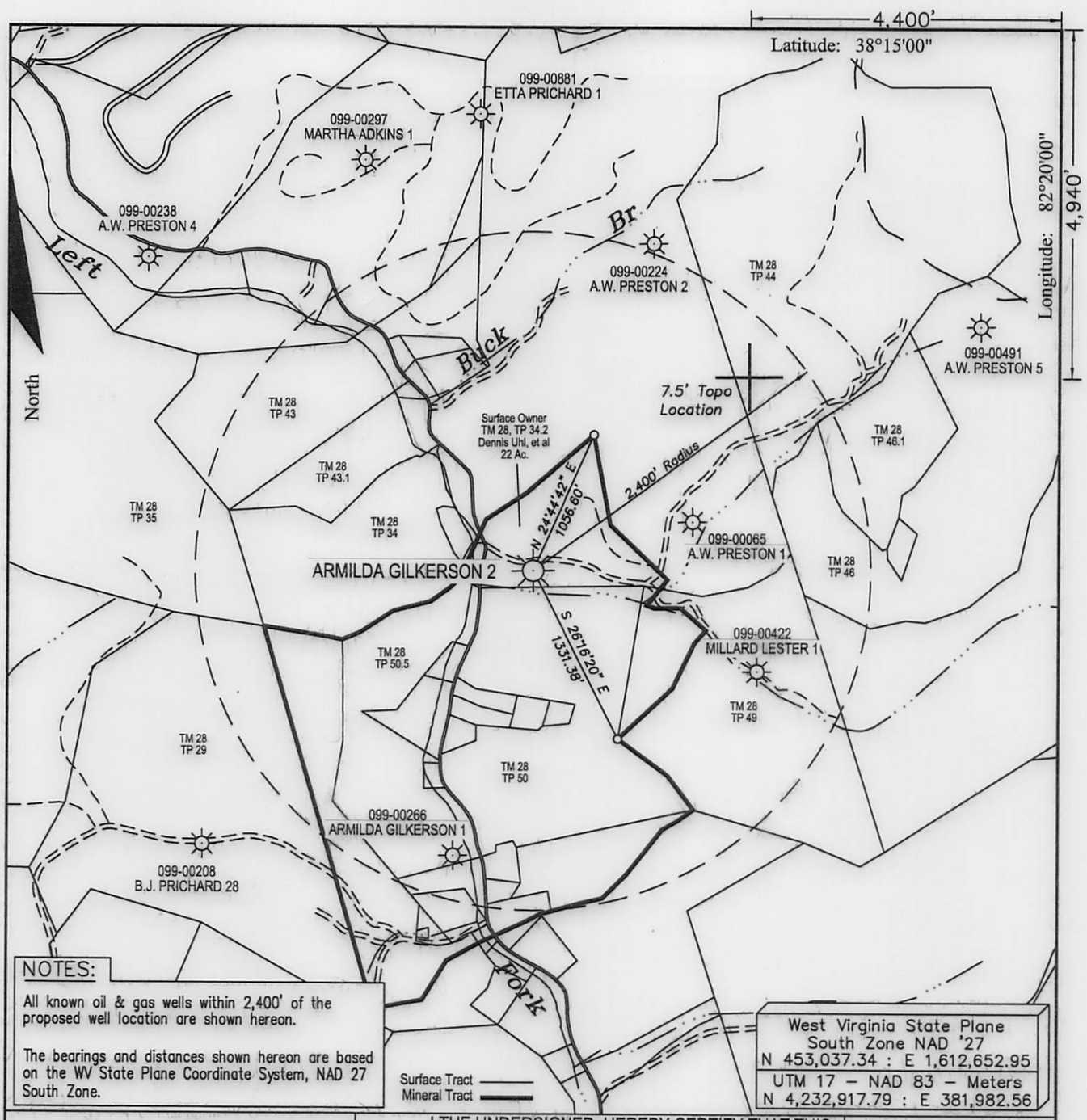
ARMILDA GILKERSON 2

LOCATION MAP

LOCATED ON THE WATERS OF THE LEFT FORK
OF MILLERS FORK
UNION DISTRICT, WAYNE COUNTY, W.VA
NESTLOW QUADRANGLE

CUNNINGHAM
LAND SURVEYING & MAPPING SERVICES, LLC
• 5213 STEPHEN WAY •
• CROSS LANES, WEST VIRGINIA 25313 •
• VOICE (304) 561-4129 • FAX (304) 776-0703 •
• E-MAIL ADDRESS • DKCUNNINGHAM@SUDDENLINK.NET •

PROJECT NO. CABOT	DWG. NO. GILKERSON 2 LOC.DWG	
DATE: 05-20-13	SCALE: AS NOTED	CHK'D BY: D.K.C.
DRAWN BY: G. PERKINS	FILE: C:\PROJECT FOLDER\CABOT	



FILE #:

DRAWING #: Gilkerson 2 ww6

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY: 1 : 12,729

PROVEN SOURCE OF ELEVATION: Global Positioning System (GPS)

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIROMENTAL PROTECTION.

Signed: Don K. Cunningham

R.P.E.: _____ L.L.S.: 701

DON K. CUNNINGHAM LICENSED ★ No. 701 ★ STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: May 21, 2013

OPERATOR'S WELL #: Armilda Gilkerson 2

API WELL #: 47 (STATE) 099 (COUNTY) 00895P (PERMIT)

Well Type: ☐ Oil ☐ Waste Disposal ☐ Production ☐ Deep
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: Left Fork of Millers Fork ELEVATION: 674.19'

COUNTY/DISTRICT: Wayne / Union QUADRANGLE: Nestlow

SURFACE OWNER: Dennis Uhl, et al ACREAGE: 22

OIL & GAS ROYALTY OWNER: Dennis Uhl, et al ACREAGE: 22

LEASE #: 47-1639 DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

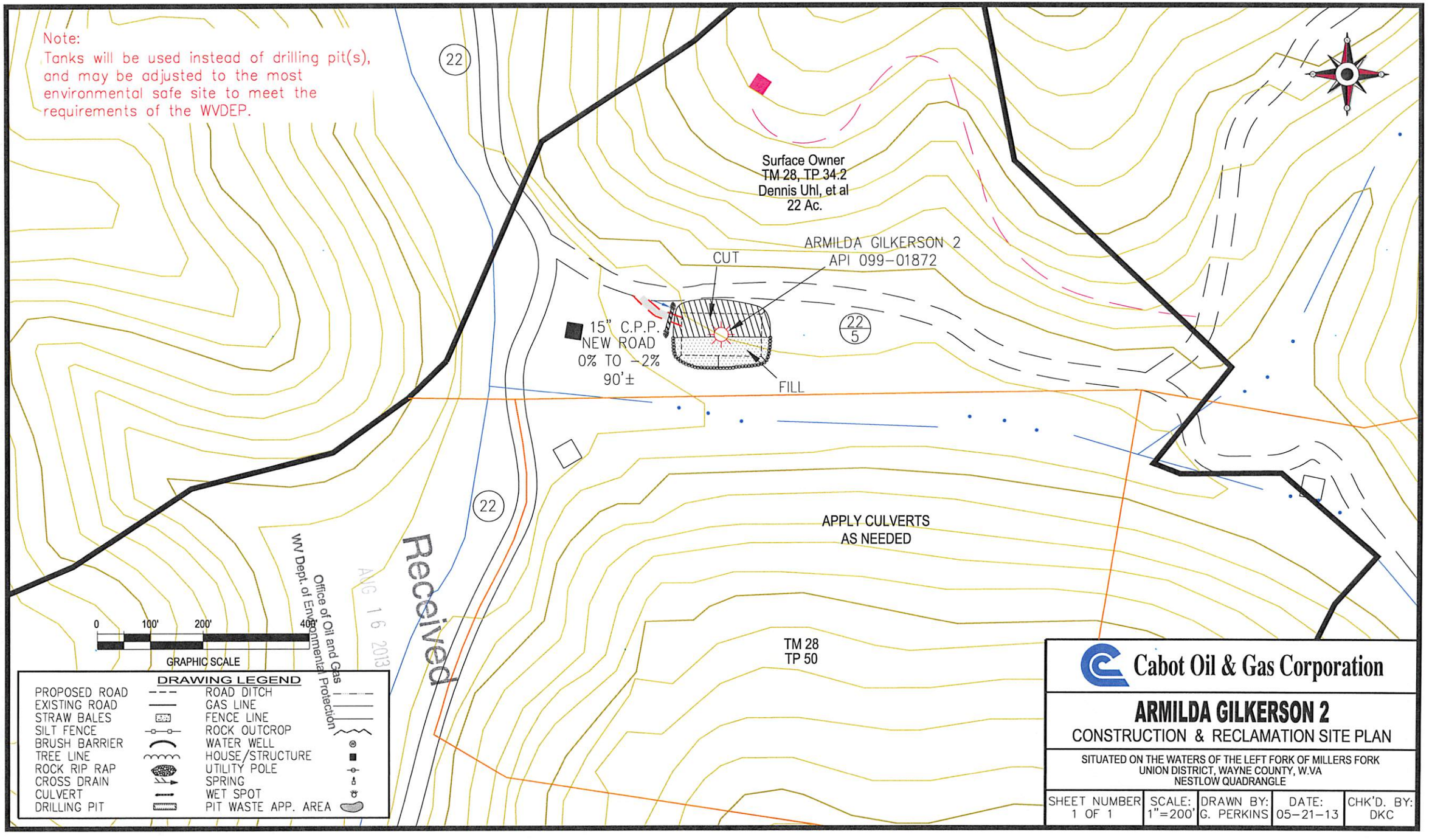
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

TARGET FORMATION: _____ ESTIMATED DEPTH: _____

WELL OPERATOR Cabot Oil & Gas Corp. DESIGNATED AGENT Brian Hall

Address Five Penn Center West, Suite 401 Address P.O. Box 260

City Pittsburgh State PA Zip Code 15276 City Danville State WV Zip Code 25053


Note:
Tanks will be used instead of drilling pit(s), and may be adjusted to the most environmental safe site to meet the requirements of the WVDEP.
22
Surface Owner
TM 28, TP 34.2
Dennis Uhl, et al
22 Ac.
ARMILDA GILKERSON 2
API 099-01872
CUT
15" C.P.P.
NEW ROAD
0% TO -2%
90'±
22/5
FILL
22
APPLY CULVERTS
AS NEEDED
TM 28
TP 50
0
100'
200'
400'
GRAPHIC SCALE
DRAWING LEGEND
PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA
Received
AUG 16 2013
Office of Oil and Gas
WV Dept. of Environmental Protection
Cabot Oil & Gas Corporation
ARMILDA GILKERSON 2
CONSTRUCTION & RECLAMATION SITE PLAN
SITUATED ON THE WATERS OF THE LEFT FORK OF MILLERS FORK
UNION DISTRICT, WAYNE COUNTY, W.VA
NESTLOW QUADRANGLE
SHEET NUMBER 1 OF 1
SCALE: 1"=200'
DRAWN BY: G. PERKINS
DATE: 05-21-13
CHK'D. BY: DKC

GENERAL NOTES:

THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD. PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORESEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.

ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL.

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/ PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED WHEN THESE CONDITIONS EXIST. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINTS OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK.

PERMANENT CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES.

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WVDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

TABLE 11-4 SPACING OF CROSS DRAINS	
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPACING OF CULVERTS	
ROAD GRADE (%)	DISTANCE (FT)
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100

1-800-245-4848

DRAWING LEGEND

PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA

DRIVING DIRECTIONS FOR ARMILDA GILKERSON 2

1.) FROM WAYNE, W.VA DRIVE NORTH ON STATE ROUTE 152 FOR 1.1 MILES± TO SECONDARY ROUTE 17.
2.) TURN RIGHT AND CONTINUE EAST ON SECONDARY ROUTE 17 FOR 4.1 MILES± TO SECONDARY ROUTE 22.
3.) TURN RIGHT AND CONTINUE SOUTH ON SECONDARY ROUTE 22 FOR 3.1 MILES± TO SECONDARY ROUTE 22/5.
4.) TURN LEFT AND CONTINUE EAST ON SECONDARY ROUTE 22/5 FOR 200 FEET± TO THE BEGINNING OF THE EXISTING ACCESS ROAD LOCATED ON THE RIGHT-HAND SIDE OF THE ROAD.
5.) FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 90 FEET± TO THE EXISTING WELL SITE IN THE FIELD AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

Received
AUG 16 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

Cabot Oil & Gas Corporation

ARMILDA GILKERSON 2

UNION DISTRICT, WAYNE COUNTY, W.VA
NESTLOW 7.5' QUADRANGLE